

In the Claims

Claims 1-17 (Cancelled)

Claim 18 (Currently amended): A cell culture comprising one or more process-forming cells in the absence of cell attachment treatments or cell attachment factors process-forming neuronal cells of the central nervous system; culture medium; and a solid substrate supporting said culture medium, wherein said neuronal cells lack processes and are clustered into one or more aggregates suspended in said culture medium, wherein there is no attachment of said neuronal cells to said substrate, and wherein said culture has a calcium concentration of 100 µM or less.

Claim 19 (Currently amended): The cell culture of claim 18, wherein said cell culture is free of calcium or contains a low concentration of calcium.

Claim 20 (Cancelled)

Claim 21 (Currently amended): The cell culture of claim 18, wherein said cell culture further comprises a solid substrate supporting said process-forming cells, and wherein said solid substrate has not been treated to promote cell attachment and lacks cell attachment factors that would promote adhesion of the process-forming cells thereto said solid substrate comprises polystyrene and has an untreated surface for supporting said culture medium.

Claim 22 (Previously presented): The cell culture of claim 21, wherein said solid substrate is a culture vessel selected from the group consisting of a Petri dish, flask, bottle, plate, tube, and vial.

Claim 23 (Previously presented): The cell culture of claim 21, wherein said solid substrate comprises untreated plastic.

Claim 24 (Previously presented): The cell culture of claim 21, wherein said solid substrate is a microbiological plate.

Claim 25 (Currently amended): The cell culture of claim 18, wherein ~~there is substantially no attachment of said process-forming cells to said solid substrate~~ said solid substrate has a surface supporting said culture medium, and wherein said surface lacks charged molecules.

Claim 26 (Currently amended): The cell culture of claim 18, wherein said cell culture has a calcium concentration of ~~50 μm~~ 50 μM or less.

Claims 27-29 (Cancelled)

Claim 30 (Currently amended): The cell culture of claim 18, ~~wherein said cell culture comprises two or more types of said~~ further comprising process-forming cells other than said neuronal cells.

Claim 31 (Previously presented): The cell culture of claim 18, further comprising non-process-forming cells.

Claim 32 (Cancelled)

Claim 33 (New): The cell culture of claim 18, wherein said culture medium lacks calcium ion as a formulated component.

Claim 34 (New): The cell culture of claim 18, wherein each of said one or more aggregates has an average diameter in the range of 150 μm to 200 μm.

Claim 35 (New): The cell culture of claim 18, wherein all of said neuronal cells within each of said one or more aggregates are living, having not begun to degenerate.

Claim 36 (New): The cell culture of claim 18, wherein said neuronal cells are fully differentiated.

Claim 37 (New): The cell culture of claim 18, wherein said neuronal cells are brain cells.

Claim 38 (New): The cell culture of claim 18, wherein said neuronal cells are human cells.

Claim 39 (New): A cell culture comprising process-forming neuronal cells of the central nervous system; and an untreated, polystyrene microbiological plate, wherein said neuronal cells lack processes, are seeded on said plate, and are clustered into one or more aggregates, wherein there is no attachment of said neuronal cells to said plate, and wherein said culture has a calcium concentration of 100 μM or less.

Claim 40 (New): A method for producing the cell culture of claim 18, comprising placing the neuronal cells on the solid substrate or culture medium; and culturing the neuronal cells for a period of time sufficient for said neuronal cells to cluster into said one or more aggregates.

Claim 41 (New): A method for producing the cell culture of claim 39, comprising placing the neuronal cells on the plate; and culturing the neuronal cells for a period of time sufficient for said neuronal cells to cluster into said one or more aggregates.

Claim 42 (New): A method for preparing process-forming neuronal cells for transplantation, comprising providing said cell culture of claim 18; removing said one or more aggregates from said culture; and combining said one or more aggregates with a pharmaceutically acceptable carrier.

Claim 43 (New): A method for preparing process-forming neuronal cells for transplantation, comprising providing said cell culture of claim 39; removing said one or more aggregates from said culture; and combining said one or more aggregates with a pharmaceutically acceptable carrier.